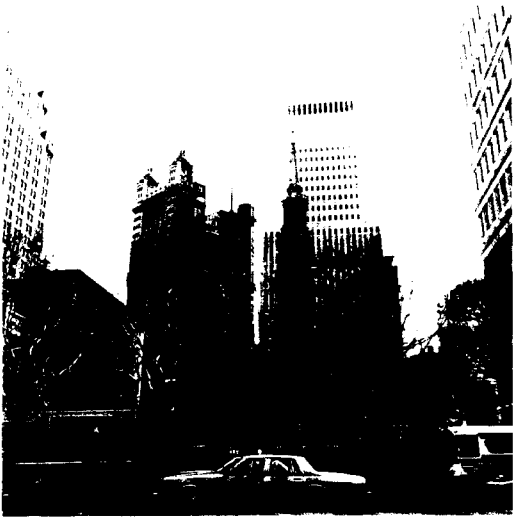
SONY



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Cordless Telephone

Operating Instructions

SPP-ER1

Before you start using your telephone:
Set up your base unit (see page 10).
Set the DIAL MODE selector to match your phone service (see page 11).
CHARGE the BATTERY PACK for your cordless handset (see page 12).

Owner's Record

The model and the serial numbers are located at the bottom of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. SPP-ER1 Serial No. _____

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
9. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified service personnel when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.

(continued)

12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    A. When the power cord or plug is damaged or frayed.
    B. If liquid has been spilled into the product.
    C. If the product has been exposed to rain or water.
    D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
    E. If the product has been dropped or the cabinet has been damaged.
    F. If the product exhibits a distinct change in performance.
13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
14. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION: TO REDUCE THE RISK OF FIRE OR INJURY TO PERSONS BY BATTERY, READ AND FOLLOW THESE INSTRUCTIONS.

1. Use only the following type and size battery pack: SONY BP-T18.
2. Do not dispose of the battery pack in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the battery pack. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling battery in order not to short the battery with conducting materials such as rings, bracelets, and key. The battery or conductor may overheat and cause burns.
5. Charge the battery pack provided with or identified for use with this product only in accordance with the instructions and limitations specified in the instruction manual provided for this product.
6. Observe proper polarity orientation between the battery pack and battery charger.

Caution

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

IMPORTANT INSTRUCTIONS TO USERS

Your SPP-ER1 model has been approved by the Federal Communications Commission (FCC) as not being harmful to the telephone network when connected directly to the telephone lines. In order to fully comply with the Rules of the FCC, the following instructions should be read carefully and followed completely where applicable:

1 The FCC Rules require that all direct connection to the telephone lines must be made through standard plugs and jacks as called out in the Rules.
No connection can be made to party lines or coin lines.
   a. Upon request from your telephone company, you must provide the 14 digit FCC Registration Number and Ringer Equivalence Number (REN), both of which are on a label located on the outer surface of your telephone.
   b. Inform your local telephone company that the jack (connector) required for your device is USOC RJ11C.
   c. After the telephone company has installed the jack listed above, you can connect your SPP-ER1 model by inserting the mating plug of your equipment into the jack.
   d. The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your number is called. In most, but not all areas, the sum of the RENs of all devices should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should call your local telephone company to determine the maximum REN for your calling area.
   e. All repairs must be accomplished as described in the "Service requirements".

2 If it appears that your SPP-ER1 model is malfunctioning, it should be disconnected from the telephone line until it can be determined if your equipment or the telephone line is the source of the trouble. If your equipment needs repair, it should not be reconnected until such repairs are made.

SERVICE REQUIREMENTS

If your SPP-ER1 model should malfunction, all repairs will be performed by an authorized Sony service representative.

This equipment has been registered with the FCC for direct connection to the telephone network. Under the FCC Program, no customer is authorized to repair this equipment. This applies to equipment both in and out of warranty. If such unauthorized repair is performed, the registration of the equipment for direct connection to the network will be null and void. If the equipment is still in warranty, the remainder of the warranty period will also be null and void. It is the responsibility of users requiring service to report the need for service to Sony dealer.
In the event that equipment must be returned for repair as determined by an authorized agent, instructions for return of equipment will be furnished by Sony Electronics Inc. or authorized agent. If the equipment is out of warranty, a nominal fee will be charged for repair.

For information contact: Sony Telecommunications Helpline (201)391-6111

There is not reason why your SPP-ER1 model should ever cause harm to the network. If such harm does occur, the telephone company shall, where practicable, notify you, the customer, that temporary discontinuance of service may be required; however, where prior notice is not practicable, the telephone company may temporarily discontinue service forthwith, if such action is reasonable in circumstances. In case of such temporary discontinuance, the telephone company shall (1) promptly notify you, the customer, of such temporary discontinuance (2) afford you, the customer, the opportunity to correct the situation which gave rise to the temporary discontinuance, and (3) inform you, the customer, of your right to bring a complaint to the Commission pursuant to the procedures set forth in the Rules.
Procedures for filing the complaints can be obtained from your local dealer, or if necessary, by writing directly to the manufacturer.

RECYCLING NICKEL-CADMIUM BATTERIES

Ni-Cd

NICKEL-CADMIUM BATTERY.
MUST BE DISPOSED OF PROPERLY.

Nickel-Cadmium batteries are recyclable. You can help preserve our environment by returning your unwanted batteries to your nearest Sony Service Center or Factory Service Center for collection, recycling or proper disposal.
Note: In some areas the disposal of nickel-cadmium batteries in household or business trash may be prohibited.

For the Sony Service Center nearest you call 1-800-222-SONY (United States only)
For the Factory Service Center nearest you call 416-499-SONY (Canada only)

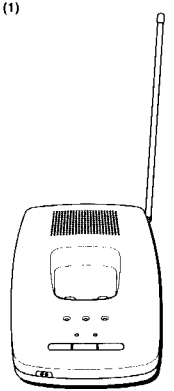
Caution: Do not handle damaged or leaking nickel-cadmium batteries.

"Warning: This telephone operates as a radio transmitter. Conversations over this cordless telephone may be heard by others on radios within the area of its range of transmission."

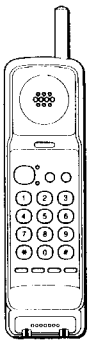
- Before initial use, insert the rechargeable battery pack into the battery compartment of the handset and charge it for more than 12 hours.
- Operate the AC power adaptor on 120 V AC, 60 Hz.
- Use the AC power adaptor supplied for this unit. Do not use any other AC power adaptor.
- Do not install the base unit in a location near a heat source such as radiators or airducts, or in a place subject to direct sunlight, excessive dust, moisture, rain, mechanical vibration, or shock.
- Do not place the base unit on or near a TV set or a personal computer to avoid interference.
- Should any liquid or solid object fall into the base unit, unplug the unit and have it checked by a qualified personnel before operating the phone any further.
- This telephone is designed and approved for single party lines only. It should not be connected to multiple lines or a coin telephone.

If you have any question or problem concerning your telephone that is not covered in this manual, please consult the nearest Sony Service Center authorized to service telephone terminal equipment.

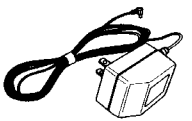
Base Unit (1)



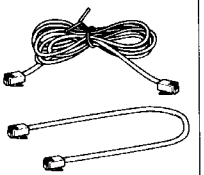
Handset



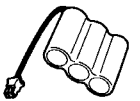
AC power adaptor (AC-T42)



Telephone line cord

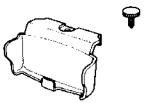


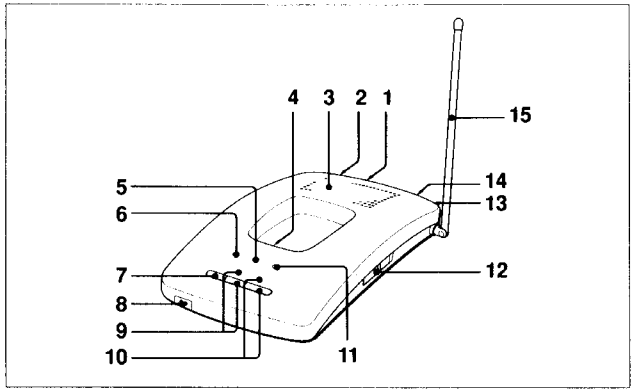
Rechargeable battery pack (BP-T18)



Wall bracket and screws

Hanger piece and screw





Base Unit

1 **DC IN 9V jack**

2 **Telephone line jack**

3 **Speaker**

4 **Charge terminals**

5 **LINE lamp**
Lights up when the telephone line is engaged.

6 **POWER lamp**
Lights up when the power is supplied to the unit.

7 **INTERCOM button**
Allows communication with the handset.

8 **Microphone**

9 **HOLD button and lamp**
Allows to hold the call. The lamp lights up while a call is put on hold.

10 **SPEAKERPHONE button and lamp**
Allows to receive calls at the base unit. The lamp lights up when a call is received at the base unit, or during conversation among caller, handset and base unit.

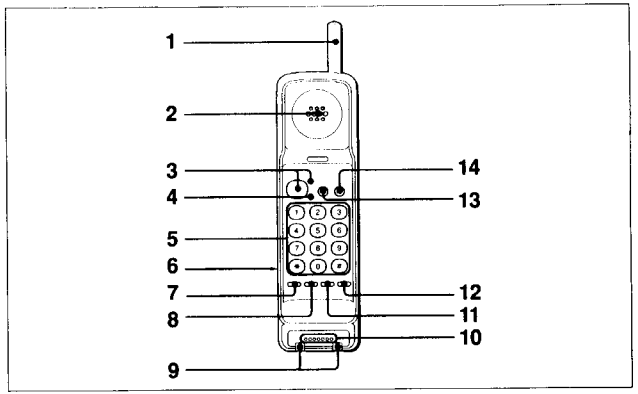
11 **CHARGE lamp**
Lights up when the battery is being charged.

12 **SPEAKER VOLUME control**

13 **RINGER (OFF/L/H) selector**
Selects the ringer level of the base unit.

14 **DIAL MODE switch**
Selects pulse or tone dialing.

15 **Antenna**



Handset

1 **Antenna**

2 **Speaker**

3 **TALK button and lamp**
Lets you make or receive a call. The lamp lights up while phone is used. Blinks while programming numbers, etc.

4 **BATT (battery) LOW lamp**
Lights up when battery becomes low.

5 **Dialing keys**

6 **RING ON/BATT SAVE mode switch**
Set to RING ON to turn the ringer on. Set to BATT SAVE to turn the ringer off and conserve battery power.

7 **CHANNEL button**
Allows to change channel for better reception.

8 **SPEED DIAL button**
Automatically dials speed dialing numbers.

9 **Charge terminals**

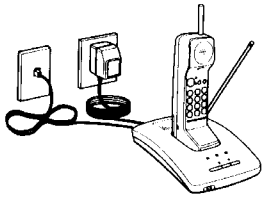
10 **Microphone**

11 **VOLUME/PROGRAM button**
Allows to program numbers. Selects the high or low volume when operated during a call.

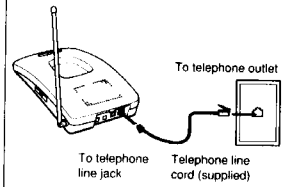
12 **REDIAL/PAUSE button**
Redials the last number called/inserts a pause in the memory dialing sequence.

13 **FLASH button**
Accesses call waiting or gives you a new dial tone.

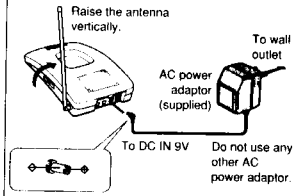
14 **INTERCOM button**
Allows communication with the base unit.



Complete Set-up
Clean the battery charge terminals with a soft cloth about once a month, otherwise, the handset may not be fully charged.



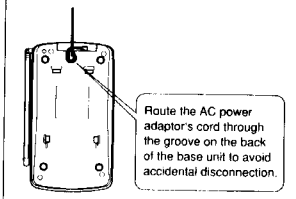
Telephone Line Connection
If your telephone jack is not a modular type, please contact your telephone company for assistance.

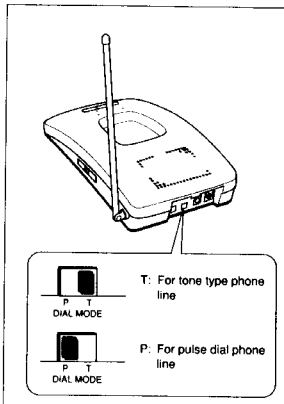


Power Connection

Notes

- **Connect the AC power adaptor to continuous power supply.**
  If the telephone is connected to a wall outlet where power is cut off every night, the battery pack will not be charged, and all programmed numbers will be lost from memory. The digital security code will also be erased.
- **If the digital security code is lost, place the handset on the base unit and charge the battery.**

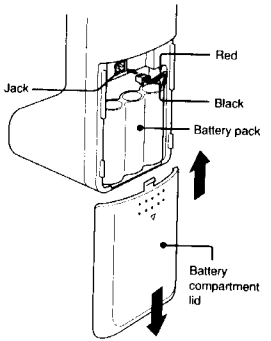


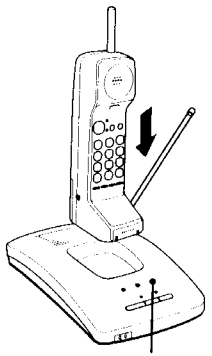


If you do not know which setting is correct for your telephone line, check as follows.

1. Set the DIAL MODE switch located at the rear of the base unit to TONE.
2. Make a trial call.
3. If the call is connected, leave the switch at TONE. Otherwise, set the switch to PULSE.

Handset





Before initial use, charge the supplied battery pack for more than 12 hours.

To charge the battery pack

1 Remove the battery compartment lid by pushing it downward.

2 Place the supplied battery pack in the battery compartment and connect the cord correctly to the jack as shown on the illustration.

3 Replace the battery compartment lid by pushing it upward.

4 Place the handset on the base unit and charge the battery pack for more than 12 hours.
The CHARGE lamp lights when the handset is fully seated onto the charge terminals of the base unit.

When to Charge the Battery

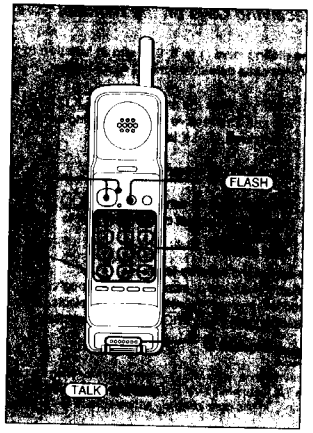
As long as the handset is placed back on the base unit after each call, the battery will be recharged continuously.

If the handset battery becomes weak
A beep tone will be heard every 3 seconds while you are on the phone.
The call will be disconnected in one minute.

Battery life
Replace the battery pack with a new one when the operating time of the completely charged battery pack has noticeably shortened.

Note

If the handset battery is completely discharged, the digital security code will be erased.
To reset the security code, place the handset on the base unit and charge the battery.



Pick up the handset from the base unit.

1 Press (TALK).
TALK lamp lights up. Confirm the dial tone.

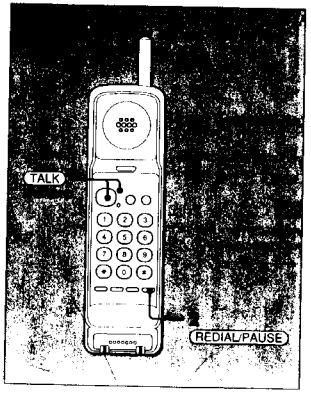
2 Dial the number.

3 Talk when your party answers.

4 When you have finished, press (TALK) again or replace the handset on the base unit to disconnect. The TALK lamp goes off.
To make another call, press (FLASH) and dial again.

Notes

- If interference noise occurs when you try to make a call, the TALK lamp will blink and short alarm beeps will sound. In this case, bring the handset closer to the base unit.
- If the base unit is engaged, busy tone will sound.
- If you use the handset too far away from the base unit, the handset may be disconnected from the base unit, and when you press (TALK) to disconnect the line, the line will remain connected for a while. To avoid the above, bring the handset closer to the base unit when the line becomes noisy.



If the line is busy when you call someone, or you want to call someone you just called, there is no need to dial the number again manually. The REDIAL button automatically redials the most recently dialed number.

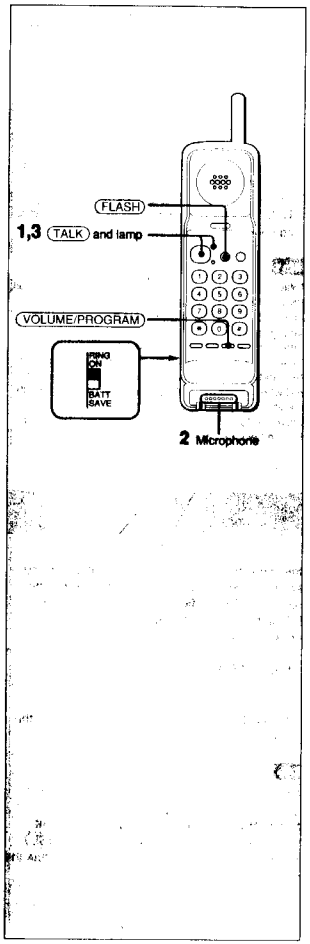
1 Press (TALK).
TALK lamp lights up.

2 Press (REDIAL/PAUSE) instead of dialing the number.

Note

You can redial a phone number of up to 32 digits.

To keep the last dialed number confidential
In the RING ON mode, press (REDIAL/PAUSE) twice as soon as the call is over. This will erase the redial memory.



Receiving Calls on the Handset

The dialing keys (1 to 9, 0, * and #) function to receive calls as well as the (TALK) button.

1 When you hear the ring, press (TALK).
You can also receive calls by pressing any dialing keys. TALK lamp lights up.

2 Speak into the microphone.

3 When you have finished, press (TALK) or replace the handset on the base unit to disconnect.

To adjust the volume level
Adjust the volume of incoming calls through the handset. High or low volume can be selected by pressing (VOLUME/PROGRAM) successively.

Note

If interference noise occurs when you try to receive a call, the TALK lamp will blink and short alarm beeps will sound. In this case, bring the handset closer to the base unit.

RINGER MODE selection

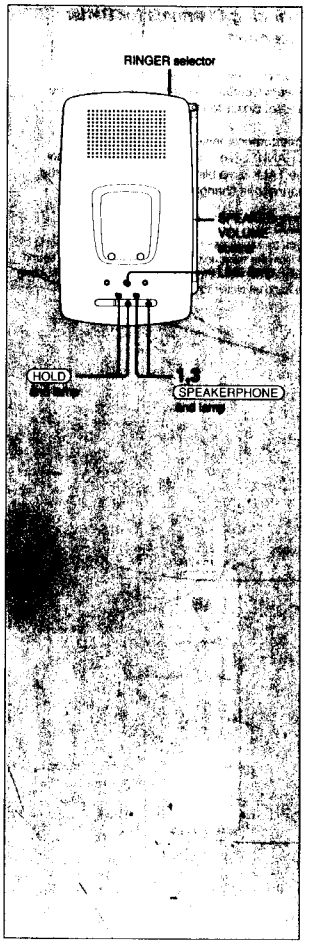
Select either RING ON mode or BATT SAVE mode using the RING ON/BATT SAVE switch.
RING ON: Normal standby mode.
The handset will ring on an incoming call.
BATT (battery) SAVE: The handset does not ring on an incoming call, which prolongs the battery duration. You can still make calls and receive calls.

Call Waiting and Flash

If you subscribe to "call waiting service", press (FLASH) to switch from one party to the other.

Note

If you do not have this service, the line will be disconnected when (FLASH) is pressed.



Receiving Calls on the Base Unit

1 When you hear the ring, press (SPEAKERPHONE).
The LINE and SPEAKERPHONE lamps light up.

2 Speak into the base unit.

3 When you have finished, press (SPEAKERPHONE) again.
The LINE and SPEAKERPHONE lamps go off.

To adjust the volume of the base unit speaker
Use the SPEAKER VOLUME control.

To adjust the ringer sound level
Select H(high), L(low) or OFF with the RINGER selector.

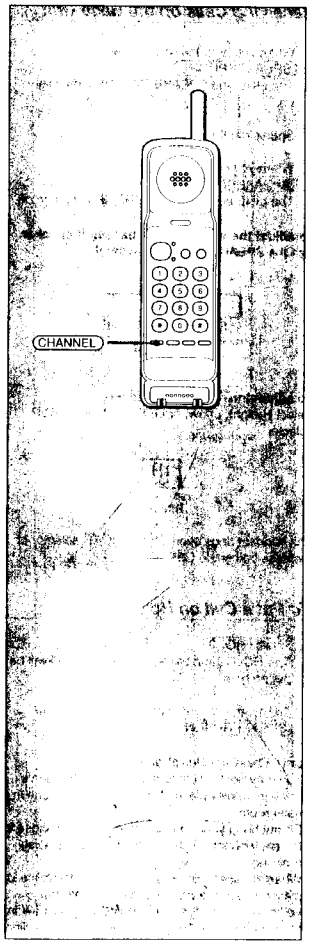
The handset rings even if the RINGER selector of the base unit set to OFF.

To Put a Call on Hold

1 Press (HOLD).
The HOLD lamp will light up and the call will be put on hold.

2 To resume conversation, press (HOLD) or (SPEAKERPHONE).

For the best speakerphone results
- You may not be able to hear the other person's voice in a noisy place. Use the speakerphone in a quiet room.
- Do not bring your hand or other object too close to the microphone. This will result in a shrill noise (howling).
- When speaker volume is loud, or the telephone is placed close to a wall, you may find that the volume drops suddenly. This is due to a circuit in the telephone designed to protect against howling. In such cases, lower the volume slightly.



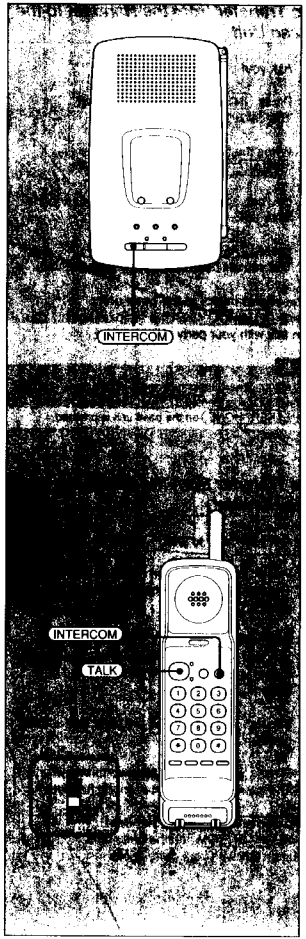
Changing Channels for Better Reception

When you hear interference noise during conversation on the handset, try bringing the handset closer to the base unit.

If interference noise still persists, press (CHANNEL) to select an alternative channel. The TALK lamp blinks, and lights up when the channel has changed.

Note

If you try to change the channel when the handset is too far from the base unit, five short error beeps will sound and the channel cannot be changed. In this case, bring the handset closer to the base unit and try again.



To use the phone as an intercome, make sure that RING ON/BATT SAVE switch on the handset is set to RING ON.

To Call the Handset from the Base Unit

1 Press (INTERCOM) on the base unit.

2 When the handset rings, press (TALK), and communication between the base unit and the handset starts.
You can also receive intercom by pressing any dialing keys (1 to 9, 0, ∗ and #).

3 To disconnect
On the handset: Press (TALK) again.
On the base unit: Press (SPEAKERPHONE).

To Call Base Unit from the Handset

1 Press (INTERCOM) on the handset.

2 When the base unit rings, press (SPEAKERPHONE), and the communication between the base unit and the handset starts.

3 To disconnect
On the base unit: Press (SPEAKERPHONE) again.
On the handset: Press (TALK).

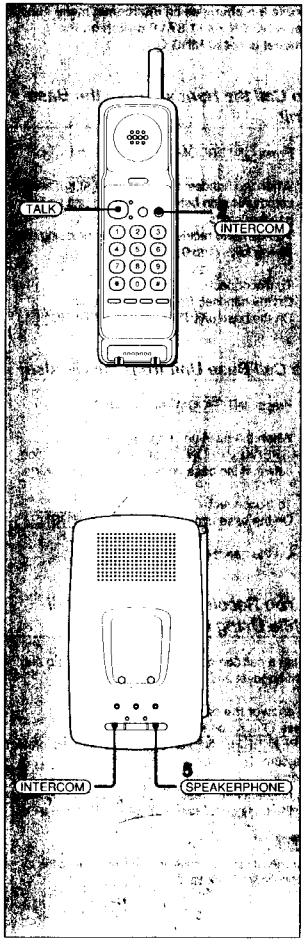
If You Receive an Incoming Call while Using Intercom

When a call comes in, you hear the incoming ring from handset and the base unit speaker.

To answer the call
Press (TALK) on the handset or (SPEAKERPHONE) on the base unit to disconnect intercom.
Then,
On the handset: Press (TALK) or any dialing key.
On the base unit: Press (SPEAKERPHONE).

Note

You cannot use the phone as an intercom when the telephone line is engaged.



To Transfer from the Handset to the Base Unit

1 Ask your party to wait.

2 Press (INTERCOM) on the handset.
The call will be put on hold.

3 When the base unit rings, press (SPEAKERPHONE) on the base unit.

4 You can speak between the handset and the base unit.

5 Press (TALK) on the hand set.
The call will be transferred to the base unit.

If no one answers at the base unit
Press (INTERCOM) on the handset again. You can talk with your party again.

Note

When transferring from the handset to the base unit, the call will be disconnected if (TALK) is pressed before (SPEAKERPHONE) on the base unit is pressed.

To Transfer from the Base Unit to the Handset

1 Ask your party to wait.

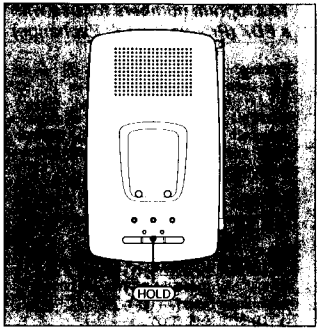
2 Press (INTERCOM) on the base unit.
The call will be put on hold and the HOLD lamp lights up.

3 When the handset rings, press (TALK).
You can also receive intercom by pressing any dialing keys (1 to 9, 0, * and #). The TALK lamp will blink.

4 You can speak between the base unit and the handset.

5 Press (SPEAKERPHONE) on the base unit.
The call will be transferred to the handset.

If no one answers at the handset
Press (INTERCOM) on the base unit.
You can talk with your party again.



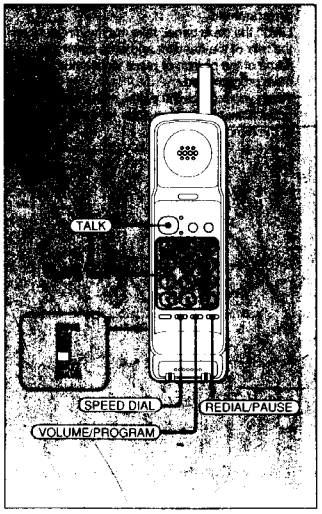
Making Conversation among the Caller, Handset, and Base Unit

During intercom for transferring a call, press (HOLD) on the base unit. Communication among the caller, handset, and base unit starts.

To shift to conversation between the caller and the handset
Press the (SPEAKERPHONE) on the base unit.

To shift to conversation between the caller and the base unit
Press (TALK) on the handset.

To shift to intercom between the base unit and the handset
Press (HOLD) on the base unit.



You can program up to 20 numbers into memory for speed dialing (01 to 20).

Notes

- Make sure that RING ON/BATT SAVE switch on the handset is set to RING ON.
- You can program a phone number of up to 16 digits for each speed dialing number. (A (*/TONE) and (REDIAL/PAUSE) is each counted as one digit.)

Programming Numbers

1 Press (VOLUME/PROGRAM).
TALK lamp blinks.

2 Press (SPEED DIAL) and dialing keys (01 to 20) for speed dialing.
You will hear a confirmation beep.

3 Dial the phone number you wish to program.

4 Press (VOLUME/PROGRAM) again.
You will hear a long confirmation beep.

To change a programmed number
Program a new number using the procedure above. The old number will be erased automatically.

(continued)

To program REDIAL
You can save a number to be redialed into memory. This is convenient when you want to dial the number after dialing a different number. Directly after you disconnect the number to be redialed, perform the steps of "Programming Numbers". Press (REDIAL/PAUSE) in step 3.

Notes

- If you enter a number that exceeds 16 digits, an alarm will sound. Go back to step 1.
- Do not let more than 20 seconds elapse between any two steps of the programming procedure.
- If you enter a wrong number, go back to step 1.
- You cannot program any number when receiving an incoming call, using the handset or using the phone as an intercom.

To Make a Call with Speed Dialing

1 Press (TALK).

2 Press (SPEED DIAL).

3 Press the desired dialing keys for speed dialing (01 to 20).

Note

If you press a dialing key without a phone number programmed, five short error beeps will sound.

To program numbers for use with a PBX (Private Branch Exchange)

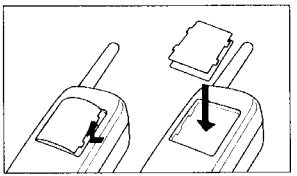
Example:
If 9 is used to access the outside line

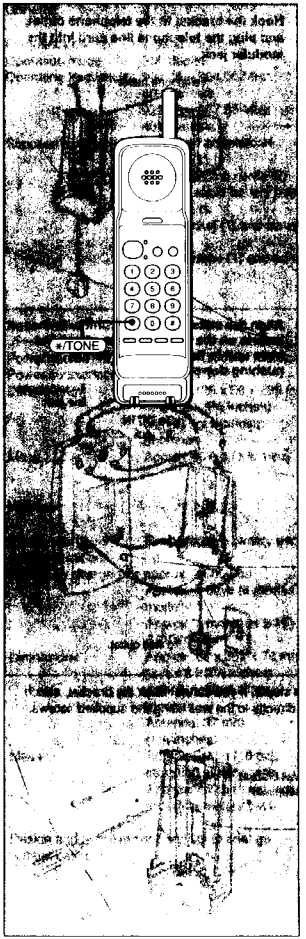
Follow the usual programming procedure as described. Press (REDIAL/PAUSE) between the "9" and the number. An automatic 4-second pause is programmed.

Example:
To program 123-4567 for speed dialing

Press:
(VOLUME/PROGRAM) → (SPEED DIAL) + (01 to 20) for speed dialing (You will hear a confirmation beep.) → ⑨→ (REDIAL/PAUSE) → ①②③④⑤⑥⑦ → (VOLUME/PAUSE) (You will hear a long confirmation beep.)
(A (REDIAL/PAUSE) will be counted as one digit.)

To keep a directory of what you programmed
Lift off the clear panel, take out the directory on the rear of the handset and write down the name of the person or place whose number you have programmed.
When you replace the panel, make sure the projections of the panel enter fully into the slots of the handset.





Some services require you to use touch-tone. This is not a problem if your phone already uses tone dialing. If your phone uses pulse dialing, however, you need to follow the steps below to use these services.

1 Dial the service number.

2 When connected to the service, press (*/TONE).

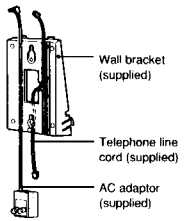
3 Press the dialing keys as required.

For details on making calls with the phones, see "Making calls" on page 13.

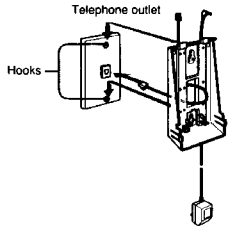
Note

You only need to press (*/TONE) once to turn dialing to tone; this will remain effective until the call is disconnected.

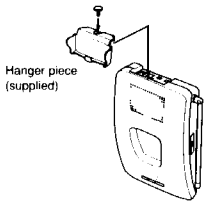
1 Attach the AC adaptor cord and the telephone line cord to the wall bracket.



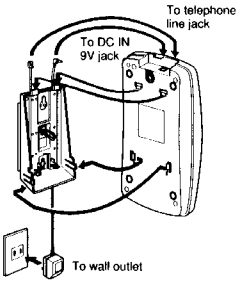
2 Hook the bracket to the telephone outlet, and plug the telephone line cord into the modular jack.



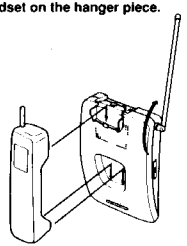
3 Attach the supplied hanger piece to the base unit using the supplied screw.



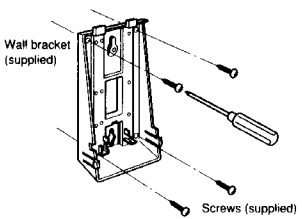
4 Align the slots on the base unit with the inserts on the bracket. Then attach the base unit to the bracket by gently pushing down.



5 Raise the antenna upward and hang the handset on the hanger piece.



In step 2, if you cannot hook the bracket, attach it directly to the wall using the supplied screws.



General

Frequency control	Crystal-controlled
Operation mode	FM, duplex
Operating frequency	902.05 – 904.00 MHz, 40 channels 926.00 – 927.95 MHz, 40 channels
Supplied accessories	AC power adaptor AC-T42 (1) Telephone line cords (2) Rechargeable battery pack BP-T18 (1) Wall bracket (1) and screws (4) Hanger piece (1) and screw (1)

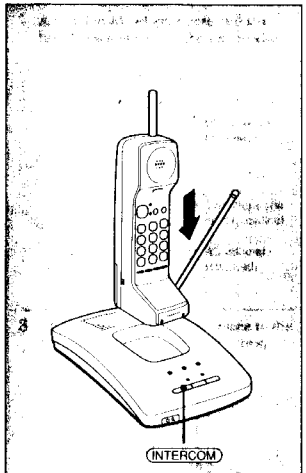
Base unit

Power source	DC 9 V AC power adaptor
Power consumption	Approx. 2 W
Dimensions	Approx. 128 x 50 x 235 mm (5 1/8 x 2 x 9 3/8 inches) (w/h/d) not including antenna
Mass	Approx. 470 g (1 lb 1 oz)

Handset

Power source	Rechargeable battery pack
Battery duration (After fully charged for approx. 24 hours.)	
	Approx. 7 days at RING ON mode
	Approx. 1 month at BATT SAVE mode
Dimensions	Approx. 62 x 202 x 72 mm (2 1/2 x 8 x 2 7/8 inches) (w/h/d) not including antenna Antenna: 37 mm (1 1/2 inches)
Mass	Approx. 290 g (10 oz), including battery pack Approx. 230 g (8 oz), not including battery pack

Design and specifications subject to change without notice.



Sony cordless telephones are equipped with a security code system that automatically matches the handset to the base unit through unique security codes. Each time you receive or initiate a call, the security code is exchanged between the handset and the base unit so that only the matching handset and base unit are connected.
This prevents the problem of "cross-signaling", where for example the handset of your unit unintentionally connects with the base unit of your neighbor's cordless phone and vice-versa.

(This is not to be confused with the interference you may encounter **during a call** from other equipment operating nearby, including cordless telephones. The channel selection feature helps you minimize such interference.)

With the automatic security code system in this unit, a unique code is set when you initially place the handset on the base to charge, and that code is maintained as long as the AC power to the base unit is maintained. In case of a prolonged AC power interruption, the base unit will reset with a new code upon power restoration, and if the handset has been away from the base during that time, it will need to be placed back on the base for a few seconds for the new code to be passed on to the handset.

Aside from this situation, the security code system works automatically, and normally you will not need to worry about it at all. Most other cordless telephones also incorporate similar security code systems.

Only in the rare event that you need to manually change the code, the following are the instructions to do so.

Place the handset on the base unit, and press (INTERCOM) of the base unit.
A new security code is selected automatically and set.

Problem	Cause/Countermeasures
Interference noise is heard.	• The handset is too far from the base unit. • Place the base unit away from noise sources (see page 6).
The handset does not ring.	• The handset battery may be weak. Charge the battery on the base unit for more than 12 hours (see page 12). • Set the RING ON/BATT SAVE switch of the handset to RING ON (see page 14). • Raise the base unit antenna vertically. • The handset is too far from the base unit. • Place the base unit away from noise sources (see page 6). • The digital security code in the base unit may be erased. To reset, place the handset on the base unit.
No dial tone	• Plug the telephone line cord securely into the telephone line jack. • The handset battery may be weak or completely discharged. Charge the battery on the base unit for more than 12 hours (see page 12).
You are connected to a wrong number, or not connected at all, even though you dialed correctly.	Check if the DIAL MODE switch setting is correct (see page 11).
The redialing function does not operate.	• The last number you dialed was more than 32 digits long (see page 13). • The number you intended to call was not the last number you dialed.
The memory dialing function does not operate.	There is no telephone number programmed for the dialing keys you pressed.
You cannot program a phone number (an alarm tone sounds).	• Recheck to follow the programming procedures correctly (see page 19). • The phone number is more than 16 digits long (see page 19).

CAUTION:
If you want to have the unit repaired, please bring or mail both the base unit and the telephone handset to the Sony Service Center.
Otherwise, we may not be able to repair it.

TELEPHONE PRODUCTS

SONY

LIMITED WARRANTY

SONY ELECTRONICS INC. ("SONY") warrants this product against defects in material or workmanship, as follows:

1. For a period of 1 year from the date of purchase, SONY will pay the labor charges of your SONY authorized service facility to repair the defective product. After this 1 year period, you must pay for all labor charges.
2. In addition, SONY will supply, at no charge, new or rebuilt replacements for defective parts for a period of 1 year from the original date of purchase.

To obtain warranty service, you must take the product, or deliver the product prepaid, to a SONY authorized service facility.

This warranty does not cover cosmetic damage, and damage due to acts of God, accident, misuse, abuse, or negligence to this product including the antenna. This warranty is valid only in the United States of America.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the warranty period must be presented to obtain warranty service.

This warranty is valid only if the serial number appears on the product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For your convenience, SONY ELECTRONICS INC. has established the Customer Information Center to supply you with product or service information.

Important: If returning product for service, please see reverse side of this card for your nearest Sony Service Center.

TELECOMMUNICATIONS HELPLINE

(201) 391-6111

PLEASE CALL US WITH YOUR QUESTIONS AND COMMENTS ON SONY TELEPHONE PRODUCTS

SONY ELECTRONICS INC.
Sony Drive, Park Ridge, New Jersey 07656

Important: If returning product for service, please see the next page (page 27) for your nearest Sony Service Center

Sony Service Centers

Arizona

Phoenix
2240 North Scottsdale Road
Tempe, AZ 85281
(602) 949-7669

California

Burbank (Los Angeles area)
4100 Riverside Drive, Suite A
Burbank, CA 91505
(818) 842-7669

Costa Mesa (Orange County area)
2729 Bristol Street South
Costa Mesa, CA 92626
(714) 549-4833

San Bruno (San Francisco area)
751 Camino Plaza
San Bruno, CA 94066
(415) 871-2810

San Diego
8975 Complex Drive
San Diego, CA 92123
(619) 279-2724

San Jose
1359 Old Oakland Road
San Jose, CA 95112
(408) 280-7669

Colorado

Denver
Havana Place Center
10740 East Iliff Avenue
Aurora, CO 80014
(303) 755-7669

Florida

Fort Lauderdale
2850 North 28th Terrace
Hollywood, FL 33020
(305) 920-5600

Georgia

Atlanta
120 Interstate North Parkway East
Suite 410
Atlanta, GA 30339
(404) 953-5871

Hawaii

Honolulu
950 Mapunapuna Street
Honolulu, HI 96819
(808) 834-6622

Illinois

Chicago
1730 West Fullerton, Suite 4
Riverpoint Shopping Center
Chicago, IL 60614
(312) 929-8585

Niles (Chicago N.W.)
7540 North Caldwell Avenue
Niles, IL 60648
(708) 647-2400

Westmont (Chicago S.W.)
6036-38 South Cass Avenue
Westmont, IL 60559
(708) 969-0049

Kansas

Kansas City
11712 West 95th Street
Overland Park
KS 66214
(913) 888-2622

Maryland (Washington D.C.)

Washington D.C.
5300 Sunnyside Avenue
Beltsville, MD 20705
(301) 595-1818

Massachusetts

Boston
390 University Avenue
128 Westwood Industrial Center
Westwood, MA 02090
(617) 329-5130

Michigan

Detroit
43304 Eleven Mile Road
Novi, MI 48050
(313) 344-4044

Minnesota

Minneapolis
4300 W. 36 1/2 Street
St. Louis Park, MN 55416
(612) 920-8000

Missouri

St. Louis
12462-D Natural Bridge Road
Bridgeton, MO 63044
(314) 291-2201

New Jersey

Mahwah (N.Y. Metropolitan Area)
386 Route 17 South
Mahwah, NJ 07430
(201) 529-1655

Union
Bradlees Shopping Center
US Highway 22 At Morris Avenue
Union, NJ 07083
(201) 687-5555

Ohio

Cleveland
6370 York Road
Parma Heights, OH 44130
(216) 845-7669

Pennsylvania

Philadelphia
651 Park Avenue
King of Prussia, PA 19406
(215) 768-8850

Pittsburgh
Wexford Plaza
10610 Perry Highway (Rt. 19N)
Wexford, PA 15090
(412) 935-8466

Texas

Dallas
401 Preston Valley Shopping Center
Dallas, TX 75230
(214) 661-3537

Houston
7839 Westheimer
Houston, TX 77063
(713) 783-8761

Washington

Seattle
835 Fidelgo
Seattle, WA 98108
(206) 762-8500

Sony District Service Offices

Western Zone

Western District
Sony Service Company
2729 Bristol Street South
Costa Mesa, CA 92626
(714) 549-4836

Northwestern District
Sony Service Company
1359 Old Oakland Road
San Jose, CA 95112
(408) 280-7675

Southwestern District
Sony Service Company
3201 Premier Dr., Suite 100
Irving, TX 75063
(214) 550-5270

Central Zone

Mid-West District
Sony Service Company
1200 N. Arlington Heights Rd.
Itasca, IL 60143
(708) 773-7666

East Central District
Sony Service Company
26200 Town Center Drive,
Suite 300 Novi, MI 48050
(313) 347-2251

Eastern Zone

Eastern District
Sony Service Company
386 Route 17 South
Mahwah, NJ 07430
(201) 529-1616

Mid-Atlantic District
Sony Service Company
651 Park Avenue
King of Prussia, PA 19406
(215) 768-8845

Southeastern District
Sony Service Company
120 Interstate North Parkway East
Suite 414
Atlanta, GA 30339
(404) 953-5858